



Please add the amended Sequence Listing as attached herein.

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REMARKS

Fig. 4 is herein amended to correct obvious errors. Fig. 4, as filed in the present application, included the mistyping of the sequence to include 'T' at base position 9885. This 'T' is now deleted in the amended Fig. 4 as submitted herein. Fig. 4, as filed, further included the mislabeling of the ovomucoid coding region sequence as '5' UNTRANSLATED REGION.' Fig. 4 is herein amended to include the correct label of 'OVOMUCOID CODING REGION.' Fig. 4, as filed, further included misnumbering of the lines of the nucleotide sequence. Fig. 4 is herein amended to correct the numbering from '9920' to 9979.

Fig. 4, as herein amended, is now in accordance with the published references of *Lindenmaier et al.*; *Catterall et al.* and *Lai et al.*, referred to on page 3 of the present application as filed, and incorporated therein by reference in their entities, as stated on page 36 of the present application.

Applicants attach amended Fig. 4 together with a marked-up version of Fig. 4, as filed 30 Nov 2001 and indicating the amendments thereon. Applicants further attach an amended Sequence Listing, both as a paper copy and in computer readable format.

Applicants herein affirm that the amended specification includes no new matter and respectfully request that the above Amendment to the Specification be entered into the above-referenced Application.

The Examiner is invited to contact the undersigned at the Examiner's convenience should any issues remain following entry of this Response.

If any fee or extension of time is required to obtain entry of this Response, the undersigned hereby petitions the Commissioner to grant any necessary time extension and authorizes charging Deposit Account No. 501729 for any such fee not submitted herewith.

Respectfully submitted,



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Date: 19 February 2002

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TAGGCAGAGCAATAGGACTCTCAACCTCGTGAGTATGGCAGCATGTAACTCTGCACTGG 60
OVOINHIBITOR 3' UNTRANSLATED REGION

AGTCCAGCGTGGGAAACAATCTGCCTTGACATGAGTCTTCGTGGGCCAATATTCCCCAA
OVOINHIBITOR 3' UNTRANSLATED REGION

CGGTTTTTCCTTCAGCTTGTCTTGTCTCCTAAGCTCTCAAAACACCTTTTTGGTGAATAAA
OVOINHIBITOR 3' UNTRANSLATED REGION

CTCACTTGGCAACGTTTATCTGTCTTACCTTAGTGTACGTTTCATCCCTATTCCCCTTT

CTCCTCCTCCGTGTGGTACACAGTGGTGCACACTGGTTCTTCTGTTGATGTTCTGCTCTG 300

ACAGCCAATGTGGGTAAAGTTCTTCTGCCACGTGTCTGTGTTGTTTTCACTTCAAAAAG

GGCCCTGGGCTCCCCTTGAGCTCTCAGGCATTTCCTTAATCATCACAGTCACGCTGGCA

GGATTAGTCCCTCCTAAACCTTAGAATGACCTGAACGTGTGCTCCCTCTTTGTAGTCAGT

GCAGGGAGACGTTTGCCTCAAGATCAGGGTCCATCTCACCCACAGGGCCATTCCCCAAGAT

GAGGTGGATGGTTTACTCTCACAAAAAGTTTTCTTATGTTTGGCTAGAAAGGAGAATCA 600

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TCCCATGGAGGGGGCAGCAACTGCTGTACAAAGGTGATCCCACCCTGTCTCCACTGAAA

TGACCTCAGTGCCACGTGTTGTATAGGGTATAAAGTACGGGAGGGGGATGCCCGGCTCCC

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GTTGGTTGTTTCAGCCAATTCTTGACGCCAAAGAGCCGGGTGCCCAGCGATATAATAGTT

GTCACTTGTGTCTGTATGGATGACAGGGAGGTAGGGTGACCTGAGGACCACCCTCCAGCT

TCTGCTAGCGTAGGTACAGTCACCACCTCCAGCTCCACACGAGTCCCATCGTGGTTTACC 1200

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TAATAGAGCTGAAGAGCAAATGTTCCCAACTTGGAGATACTAGTTGGTATTAGTATCAGA

GGAACAGGGCCATAGCACCTCCATGCTATTAGATTCCGGCTGGCATGTACTTTTCAAGAT

GATTTGTAACATAACAATGGCTTATTGTGCTTGTCTTAAGTCTGTGTCCTAATGTAAATGT

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GGCTTGGCTGTAAATGGATGGAAGGATGGACAGATGGGTGGACAGAGATTTCTGTGCAGG

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GGGTCTGAGCAGTGCTGGGACTCACGAGGTTCCATGTCTTTCACTGATAATGGTCCAA

CR1

TTTCTGGAATGGGTGCCCATCCTTGGAGGTCCCCAAGGCCAGGCTGGCTGCGTCTCCGAG

CR1

CAGCCCCGATCTGGTGGTGAGTAGCCAGCCCATGGCAGGAGTTAGAGCCTGATGGTCTTTA

CR1

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CR1

TGCAGAGGCAATATTTTAAAGTTATAAATGTTTTCTCCCCTTCCTTGTTTGTCAAAGTTA

CR1

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CATCTCCTCTTCTCCTTCTCCCTTTGCTGTTTGTGCTCGGGTAGAAATCATGAAGATTT
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GCGTGTGGCTCAGGTCAGATAGTGGTCACTCTGTGGCCAGAAGAAGGACAAAGATGAAA
TTGCAGATTGAGTCACGTTAAGCAGGCATCTTGGAGTGATTTGAGGCAGTTTCATGAAAG
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TGGCAAAGCCCAGGAATGTTTGGGAAAAGTGATGTTAAATGTTTTGTAAATTCATTTGTCTG 7800
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ACATCAATATTAGTTTGGAAAAAACACCACCACCAGAACTGTAATGGAAAATGTA
AACCAGAATTCCTTGGGTAAGAGAGAAAGGATGTCGTATACTGGCCAAGTCTCTGCCCA
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TCCCCTGCCCTTTGCTTGGCCACAGATCTCTGCCCTTGTGCTGACTCCTGCACACAAGAGC 8100
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TTTGCAATTAAGTGGATTGCAGCAGGAGATCAGTGGCAGGGTTGCAGATGAAATCCTTTT
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TCAATTGCTTAACTGTGACTAGGTCTGTAAATAAGTGCTCCCTGCTGATAAGGTTCAAG
TGACATTTTTAGTGGTATTTGACAGCATTTACCTTGCTTTCAAGTCTTCTACCAAGCTCT
TCTATACTTAAGCAGTGAAACCGCCAAGAAACCTTCTTTTATCAAGCTAGTGCTAAAT 9300
ACCATTAACCTCATAGGTAGATACGGTGCTGCCAGCTTCACCTGGCAGTGTTTGGTCAG
TTCTGCTGGTGACAAAGCCTCCCTGGCCTGTGCTTTTACCTAGAGGTGAATATCCAAGAA
TGCAGAACTGCATGAAAGCAGAGCTGCAGGCACGATGGTGCTGAGCCTTAGCTGCTTCC
TGCTGGGAGATGTGGATGCAGAGACGAATGAAGGACCTGTCCCTTACTCCCCTCAGCATT

CTGTGCTATTTAGGGTTCTACCAGAGTCCTTAAGAGGTTTTTTTTTTTTTTGGTCCAAAA 9600
GTCTGTTTGTGGTTTTGACCACTGAGAGCATGTGACACTTGTCTCAAGCTATTAACCA
AGTGTCCAGCCAAAATCAATTGCCTGGGAGACGCAGACCATTACCTGGAGGTCAGGACCT
CAATAAATATTACCAGCCTCATTGTGCCGCTGACAGATTCAGCTGGCTGCTCCGTGTTCC
AGTCCAACAGTTCGGACGCCACGTTTGTATATATTTGCAGGCAGCCTCGGGGGGACCATC
TCAGGAGCAGAGCACCGGCAGCCGCCTGCAGAGCCGGGCAGTACCTCACC**ATGGCCATGG** 9900
OVOMUCOID 5' UNTRANSLATED REGION
CAGGTGTCTTCGTGCTGTTCTCTTTCGTGCTTTGTGGCTTCCTCCCAGGTGAGTAACTCC
OVOMUCOID CODING REGION
CAGAGTGCTGCAGAAGCTT 9979

FIG. 4

MARKED UP VERSION

TAGGCAGAGCAATAGGACTCTCAACCTCGTGAGTATGGCAGCATGTAACTCTGCACTGG 60
 OVOINHIBITOR 3' UNTRANSLATED REGION

AGTCCAGCGTGGGAAACAATCTGCCTTGACATGAGTCTTCGTGGGCCAATATTCGCCAA
 OVOINHIBITOR 3' UNTRANSLATED REGION

CGGTTTTCTTCAGCTTGTCTTGTCTCCTAAGCTCTCAAAACACCTTTTTGGTGAATAAA
 OVOINHIBITOR 3' UNTRANSLATED REGION

CTCACTTGGCAACGTTTATCTGTCTTACCTTAGTGTCACGTTTCATCCCTATTCCCTTT

CTCCTCCTCCGTGTGGTACACAGTGGTGCACACTGGTTCTTCTGTTGATGTTCTGCTCTG [...] 300

ACAGCCAATGTGGGTAAAGTTCTTCTGCCACGTGTCTGTGTTGTTTTCACTTCAAAAAG
 GGCCCTGGGCTCCCCTTGGAGCTCTCAGGCATTTCTTAATCATCACAGTCACGCTGGCA
 GGATTAGTCCCTCCTAAACCTTAGAATGACCTGAACGTGTGCTCCCTCTTTGTAGTCAGT
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 GAGGTGGATGTTTTACTCTCACAAAAGTTTTCTTATGTTTGGCTAGAAAGGAGAATCA 600

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CATGAGAGCGCGGGGAGCTTTGGTACTGTTCACTGTCTGCTGCTTGTGCTTCCTGGGTGCA 2400
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 GGGTCTGAGCAGTGCTGGGACTCACGAGGTTCCATGTCTTTCACACTGATAATGGTCCAA

CR1

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 CR1

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 CR1

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CR1

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CR1

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TTAACTCGGGTGAATCTCCTTCACTCGCATCATTTGCGGGCCTTATTTACATCCCAGC 4500

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GCAGCGATTTAACACTCGCTTCTTAGTCTGCTATTCTCCACAGGCTGCATTCAAATGAA 4800

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ATATGATCATATACAGCACAGCAGTCATTGTGCATGTATTAATATATATTGAGTAGCAGT 5100

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TAACTTATAAATAGTAAAACCTTCTCAGTTTACGCCACGTGCTCCTCTCTGTGTCAGCACC
TGGTGCTTTCGCTGCACCCAGCTGCAAGGAATCAGCCCGTGATCTCATTAACACTCAGCT
CTGCAGGATAAATTAGATTGTTCCACTCTCTTTTGTGTTAATTACGACGGAACAATTGT
TCAGTGCTGATGGTCCTAATTGTCAGCTACAGAAAACGTCTCCATGCAGTTCCTTCTGCG 5400

CCAGCAAACGTGCCAGGCTATAGCACCGTGATGCATGCTACCTCTCACTCCATCCTTCTT
CTCTTTCCCACAGGGAGAGCTGTGTGTTTTACTCTCAGCCACTCTGAACAATACCAA
CTGCTACGCAATGCCTCCCTCGGAAAGAGAAATCCCTTGTGCTTTTTTATTACAGGAT
CCTTCTTAAAAAGCAGACCATCATTTCACTGCAAAACCCAGAGCTTCATGCCTCTCCTTCCA
CAACCGAAAACAGCCGGCTTCATTTGTCTTTTTTAAATGCTGTTTTTCCAGGTGAATTTTG 5700

GCCAGCGTGTGGCTGAGATCCAGGAGCACGTGTGAGCTTTCTGCTCTCATTGTCTCTGT
TCTGCATTGCCTCTTTCTGGGGTTTTCCAAGAGGGGGGAGACTTTGCGCGGGGATGAGAT
AATGCCCTTTTCTTAGGGTGGCTGCTGGGCAGCAGAGTGGCTCTGGGTCACTGTGGCAC
CAATGGGAGGCACCAAGTGGGGGTGTGTTTTGTGTCAGGGGGGAAGCATTCACAGAATGGGG
CTGATCCTGAAGCTTGCAGTCCAAGGCTTTGTCTGTGTACCAAGTGAATCCTTCTCTG 6000

TTACATAAAGCCCAGATAGGACTCAGAAATGTAGTCATTCCAGCCCCCTCTTCTCTCAGA
TCTGGAGCAGCACTTGTGTCAGCCAGTCTCCCCAAAATGCACAGACCTCGCCGAGTGG
AGGGAGATGTAAACAGCGAAGGTTAATTACCTCCTTGTCAAAAACACTTTGTGGTCCATA
GATGTTTCTGTCAATCTTACAAAACAGAACCGAGAGGCAGCAGCACTGAAGAGCGTGT

CCCATGCTGAGTTAATGAGACTTGGCAGCTCGCTGTGCAGAGATGATCCCTGTGCTTCAT 6300
 GGGAGGCTGTAACCTGTCTCCCCATCGCCTTCACACCGCAGTGCTGTCTGGACACCTCA
 CCTCCATAAGCTGTAGGATGCAGCTGCCCAGGGATCAAGAGACTTTTCCTAAGGCTCTT
 AGGACTCATCTTTGCCGCTCAGTAGCGTGCAGCAATTACTCATCCCACTATACTGAATG
 GGTTTCTGCCAGCTCTGCTTGTGTCAATAAGCATTTCCTCATTTCCTCTAAGTTTC
 TCTCAGCAGCACCGCTCTGGGTGACCTGAGTGGCCACCTGGAACCCGAGGGGGCACAGCCA 6600
 CCACCTCCCTGTTGCTGCTGCTCCAGGGACTCATGTGCTGCTGGATGGGGGGAAGCATGA
 AGTTCCTCACCCAGACACCTGGGTGCAATGGCTGCAGCGTGCTCTTCTTGGTATGCAGA
 TTGTTTCCAGCCATTACTTGTAGAAATGTGCTGTGGAAGCCCTTTGTATCTCTTTCTGTG
 GCCCTTCAGCAAAAGCTGTGGGAAAGCTCTGAGGCTGCTTTCTTGGGTCTGGAGGAATT
 GTATGTTCTTCTTTAACAAAAATTATCCTTAGGAGAGAGCACTGTGCAAGCATTGTGCA 6900
 CATAAAACAATTACAGGTGAAAGGGCTCTCTGGAGGTTTCCAGCCTGACTACTGCTCGAA
 GCAAGGCCAGGTTCAAAGATGGCTCAGGATGCTGTGTGCCTTCCTGATTATCTGTGCCAC
 CAATGGAGGAGATTACAGCCACTCTGCTTCCCGTGCCACTCATGGAGAGGAATATTTCC
 TTATATTCAGATAGAATGTTATCCTTTAGCTCAGCCTTCCCTATAACCCCATGAGGGAGC
 TGCAGATCCCCATACTCTCCCCTTCTCTGGGGTGAAGGCCGTGTCCCCCAGCCCCCTTC 7200
 CCACCTGTGCCCTAAGCAGCCCCGCTGGCCTCTGCTGGATGTGTGCCTATATGTCAATGC
 CTGTCTTTGCAGTCCAGCCTGGGACATTTAATTCATCACCAGGGTAATGTGGAACGTGTG
 CATCTTCCCCTGCAGGGTACAAAGTCTGCACGGGGTCTTTCGGTTCAGGAAAACCTTC
 ACTGGTGCTACCTGAATCAAGCTCTATTTAATAAGTTCATAAGCACATGGATGTGTTTTC
 CTAGAGATACGTTTTAATGGTATCAGTGATTTTTATTTGCTTTGTTGCTTACTTCAAACA 7500
 GTGCCTTTGGGCAGGAGGTGAGGGACGGGTCTGCCGTTGGCTCTGCAGTGATTTCTCCAG
 GCGTGTGGCTCAGGTCAGATAGTGGTCACTCTGTGGCCAGAAGAAGGACAAAGATGGAAA
 TTGCAGATTGAGTCACGTTAAGCAGGCATCTTGAGGTGATTGAGGCAGTTTCATGAAAG
 AGCTACGACCACTTATTGTTGTTTTCCCCTTTTACAACAGAAGTTTTTCATCAAAAATAACG
 TGGCAAAGCCCAGGAATGTTTGGGAAAAGTGTAAGTTAAATGTTTTGTAATTCATTTGTCTG 7800
 GAGTGCTACCAGCTAAGAAAAAAGTCCTACCTTTGGTATGGTAGTCCTGCAGAGAATACA
 ACATCAATATTAGTTTTGGAAAAAACACCACCACCAGAACTGTAATGGAAAATGTA
 AACCAAGAAATTCCTTGGGTAAGAGAGAAAGGATGTCGTATACTGGCCAAGTCCTGCCCC
 GCTGTACGCCTGCTGACCCTCTGCAGTTCAGGACCATGAAACGTGGCACTGTAAGACGTG
 TCCCCTGCCTTTGCTTGGCCACAGATCTCTGCCCTTGTGCTGACTCCTGCACACAAGAGC 8100
 ATTTCCCTGTAGCCAAACAGCGATTAGCCATAAGCTGCACCTGACTTTGAGGATTAAGAG
 TTTGCAATTAAGTGGAATTGCAGCAGGAGATCAGTGGCAGGGTTGCAGATGAAATCCTTTT
 CTAGGGGTAGCTAAGGGCTGAGCAACCTGTCTACAGCACAAGCCAAACCAGCCAAGGGT
 TTTCTCTGTGCTGTTACAGAGGCAGGGCCAGCTGGAGCTGGAGGAGGTGTGCTGGGACC
 CTTCTCCCTGTGCTGAGAATGGAGTGATTTCTGGGTGCTGTTCTGTGGCTTGCAGTGAG 8400
 CAGCTCAAGGGAGATCGGTGCTCCTCATGCAGTGCCAAAACCTCGTGTTTGATGCAGAAAG
 ATGGATGTGCACCTCCCTCCTGCTAATGCAGCCGTGAGCTTATGAAGGCAATGAGCCCTC
 AGTGCAGCAGGAGCTGTAGTGCACCTCCTGTAGGTGCTAGGGAAAATCTCTGGTTCCCAGG
 GATGCATTACATAAGGGCAATATATCTTGAGGCTGCGCCAAATCTTTCTGAAATATTCATG
 CGTGTTCCCTTAATTTATAGAAACAAACACAGCAGAATAATTATCCAATGCCTCCCCTC 8700
 GAAGGAAACCCATATTTCCATGTAGAAATGTAACCTATATACACACAGCCATGCTGCATC
 CTTCAGAACGTGCCAGTGCTCATCTCCCATGGCAAAATACTACAGGTATTCTCACTATGT
 TGGACCTGTGAAAGGAACCATGGTAAGAACTTCGGTTAAAGGTATGGCTGCAAAACTAC
 TCATAACAAAACAGCAGAGCTCCAGACCTCCTCTTAGGAAAGAGCCACTTGGAGAGGGAT
 GGTGTGAAGGCTGGAGGTGAGAGACAGACCTGTCCCAGTTTTCTGTCTCTATTTTCTG 9000
 AAACGTTTGCAGGAGGAAAGGACAACGTACTTTCAGGCATAGCTGGTGCCCTCACGTAA
 ATAAGTTCCCGAACTTCTGTGTCATTTGTTCTTAAGATGCTTTGGCAGAACACTTTGAG
 TCAATTTCGCTTAAGTGTGACTAGGTCTGTAAATAAGTGCTCCCTGCTGATAAGGTTCAAG
 TGACATTTTTAGTGTTATTTGACAGCATTTACCTTGCTTTCAAGTCTTCTACCAAGCTCT
 TCTATACTTAAGCAGTGAAACCGCCAAGAAACCTTCCCTTTTATCAAGCTAGTGCTAAAT 9300
 ACCATTAACCTCATAGGTTAGATACGGTGCTGCCAGCTTCACCTGGCAGTGTTTGGTCAG
 TTCTGCTGGTGACAAAGCCTCCCTGGCCTGTGCTTTTACCTAGAGGTGAATATCCAAGAA
 TGCAGAACTGCATGGAAAGCAGAGCTGCAGGCACGATGGTGCTGAGCCTTAGCTGCTTCC
 TGCTGGGAGATGTGGATGCAGAGACGAATGAAGGACCTGTCCCTTACTCCCCTCAGCATT
 CTGTGCTATTTAGGGTTCTACCAGAGTCCTTAAGAGGTTTTTTTTTTTTTTGGTCCAAAA 9600
 GTCTGTTTGTGTTGGTTTTGACCACTGAGAGCATGTGACACTTGTCTCAAGCTATTAACCA

AGTGTCCAGCCAAAATCAATTGCCTGGGAGACGCAGACCATTACCTGGAGGTCAGGACCT
CAATAAATATTACCAGCCTCATTGTGCCGCTGACAGATTCAGCTGGCTGCTCCGTGTTCC
AGTCCAACAGTTCGGACGCCACGTTTGTATATATTTGCAGGCAGCCTCGGGGGGACCATC

TCAGGAGCAGAGCACCGGCAGCCGCCTGCAGAGCCGGGCAGTAC[T]CTCACCATGGCCATG 9900

OVOMUCOID 5' UNTRANSLATED REGION

GCAGGTGTCTTCGTGCTGTTCTCTTTTCGTGCTTTGTGGCTTCCTCCCAGGTGAGTAACTC

OVOMUCOID [5' UNTRANSLATED REGION] CODING REGION

CCAGAGTGCTGCAGAAGCTT

[9920]9979

FIG. 4